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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION, NO.
09/514,460	02/28/2000	Neta Amit	1018.073US1	8502
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	IT & MAYER, LTD	BOUTAH, ALINA A		
TWO PRUDENTIAL PLAZA, SUITE 4900 180 NORTH STETSON AVENUE CHICAGO, IL 60601-6780			ART UNIT	PAPER NUMBER
			2143	
			DATE MAILED: 01/05/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary - The MAILING DATE of this communication appears on the cover sheet with the correspond nee address P riod for R ply A SHORTENEO STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 3 CFR 1.136(b). In one event, however, may a reply be timely liked after SN. (6) MONTH'S from the ratilling date of the communication. If NO particle reply supplies the time the provisions of 3 CFR 1.136(b). In one event, however, may a reply be timely liked after SN. (6) MONTH'S from the mailing date of the communication. If NO particle reply supplies the provision of 3 CFR 1.136(b). In one event, however, may a reply be timely liked after SN. (6) MONTH'S from the mailing date of the communication. If NO particle reply supplies the provision of 3 CFR 1.136(b). In one event, however, may a reply be timely liked after SN. (6) MONTH'S from the mailing date of the communication. If NO particle reply supplies the provision of 3 CFR 1.136(b). In one event, however, may a reply be timely liked after SN. (6) MONTH'S from the mailing date of the communication. If NO particle reply supplies the provision of the provision of the mailing date of the communication. If NO particle reply supplies the provision of the provision of the mailing date of the communication. It is accordance with the practice under Exparte Queryle, 1835 C.D. 11, 453 O.G. 213. Disposition of Claims Application of Sn. (1) is a particle under Exparte Queryle, 1835 C.D. 11, 453 O.G. 213. Disposition of Claims Application is particle and provision of the provision of the provision of the above claim (s)			Application No.	Applicant(s)			
Alina N Boutah - The MAILING DATE of this communication appears on the cover sheet with the correspond nec address → Priod for R ply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. If the period for reply specified above is less than thirty (80) days, a reply within the statutory retirement of the replant gate of this communication. If the period for reply specified above is less than thirty (80) days, a reply within the statutory retirement of this period for reply specified above is less than thirty (80) days, a reply within the statutory retirement of this (9) in the maining date of this communication. If the period for reply a specified above is less than thirty (80) days, a reply within the statutory retirement of the replant gate of this communication. If the period for reply a specified above is less than thirty (80) days, a reply within the statutory retirement of the replant gate of this communication. If the period for replant specified above is less than thirty (80) days, a reply within the statutory retirement of the replant gate of this communication. If the period for replant specified above is less than thirty (80) days and the considered timely. If the period for replant gate of this communication. A period for replant specified above is less than thirty (80) days and the considered timely. If the period for replant gate of this communication. Application is plant and the period and the communication and the communication and the communication. Application of Claims A page 1 (Claims) 2.2.28 is/are pending in the application. Application is plant at the practice under Exp parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims A page 2.2.28 is/are rejected. Claims(s) 2.2.28 is/are rejected. Claims(s) 2.2.28 is/are rejected to estimate the communication and/or election requirement. Application Papers 9			09/514,460	AMIT ET AL.			
The MAILING DATE of this communication appears on the cover sheet with the correspond rice address— Priod for R ply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Eaterstors of the may be available under the provides of 37 CR 1.13(fg), in no event, however, may a reply be timely filed side to still provide or the major particle of this communication. Eaterstors of the may be available under the provides of 37 CR 1.13(fg), in no event, however, may a reply be timely filed side to the communication. The provides of the provides possible under the maining date of this communication. Filed to reply within the set of extended period for reply will, by statute, cause the application to become ARANDONED (35 U.S.C. § 133). Filed to reply within the set of extended period for reply will, by statute, cause the application to become ARANDONED (35 U.S.C. § 133). Filed to reply within the set of extended period for reply will, by statute, cause the application to become ARANDONED (35 U.S.C. § 133). **Status** 1) □ Responsive to communication(s) filed on 20 September 2004. 1) □ Responsive to communication for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quay/e, 1935 C.D. 11, 453 O.G. 213. **Disposition of Claims** 4) □ Claim(s) 23-28 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 6) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are allowed. 7) □ Claim(s) is/are allowed. 8) □ Claim(s) 32-28 is/are rejected to. 8) □ Claim(s) is/are allowed. 10 □ The drawing(s) filed on is/are: allowed. 8) □ Claim(s) 32-28 is/are rejected to by the Examiner. Application Papers 9 □ The specification is objected to by the Examiner. 11 □ The proposed drawings are required in reply to this Office action. 12 □ The oath or declaration is objected to by the Examiner. 13 □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (Office Action Summary	Examiner	Art Unit			
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DETAILED ACTION

Response to Amendment

This action is in response to Applicant's amendment received September 20, 2004. Claims 1-22 have been cancelled. Claims 23-27 have been newly added. Claims 23-27 are pending in the present application.

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on September 20, 2004 has been entered.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 23, 25, 26 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over USPN 6,058,389 issued to Chandra et al. (hereinafter referred to as Chandra) in view of USPN 6,094,694 issued to Hickson et al. (hereinafter referred to as Hickson).

(New) Regarding claim 23, Chandra teaches a method for a sender to guarantee an exactly once delivery of a message to a receiver, the method comprising:

associating an expiration time with the message (figure 4B; col. 8, line 60 to col. 9, line 2);

associating an identifier with the message (figure 4B; col. 8, line 60 to col. 9, line 2); storing the message in association with the expiration time and with the identifier (figure 4B).

However, Chandra fails to teach sending to the receiver the message in association with the expiration time and with the identifier; and upon reaching the expiration time, if the message has not been deleted, then deleting the message along with the identifier and the expiration time associated with the message, the deleting being performed by a scavenger thread of the sender.

Although Hickson does not explicitly teach sending an identifier in association with the expiration time to the receiver, he teaches receiving the expiration time, and the message from a receiver (Abstract; col. 2, line 58 to col. 3, line 9; col. 4, lines 33-39) and in order for the receiver to receive the message and its components, it must be sent by a sender. Also, although Hickson does not expressly teach receiving the identifier, it is well known in the art that in a conventional computer system, all messages have some kind of identifier.

Hickson also teaches upon reaching the expiration time, if the message has not been deleted, then deleting the message along with the identifier and the expiration time associated with the message (col. 2, lines 31-39; line 58 to col. 3, line 9). Although Hickson does not explicitly disclose the deletion being performed by a "scavenger thread," he discloses a process that checks whether a message is expired and deletes any expired message (figure 3). In this

case, this process is interpreted as a "scavenger thread" because it performs substantially the same function to reach substantially same result.

At the time the invention was made, one of ordinary skill in art would have been motivated to combine the teaching of Hickson with the teaching of Chandra by deleting expired messages in order to free up storage for the receipt of more messages (col. 2, lines 34-35), thus increasing the system's efficiency.

Claim 25 is similar to claim 23, therefore is rejected under the same rationale.

(New) Regarding claim 26, Chandra teaches a method for a receiver to guarantee an exactly once delivery of a message from a sender, the method comprising:

receiving the message in association with an expiration time and with an identifier (figure 4B; col. 8, line 60 to col. 9, line 2). However, Chandra fails to teach: if the expiration time has passed, then discarding the message and the associated expiration time and identifier; else if the identifier is associated with another message already received by the receiver, then discarding the message and the associated expiration time and identifier; else storing the message in association with the expiration time and with the identifier, performing an action associated with a content of the massage and upon reaching the expiration time, if the message has not been deleted, then deleting the message along with the identifier and the expiration time associated with the message, the deleting being performed by a scavenger thread of the receiver.

Hickson teaches if the expiration time has passed, then discarding the message and the associated expiration time and identifier (col. 2, lines 31-39; line 58 to col. 3, line 9);

else if the identifier is associated with another message already received by the receiver, then discarding the message and the associated expiration time and identifier (col. 2, lines 31-39; line 58 to col. 3, line 9);

else storing the message in association with the expiration time and with the identifier, performing an action associated with a content of the massage and upon reaching the expiration time, if the message has not been deleted, then deleting the message along with the identifier and the expiration time associated with the message (col. 2, lines 31-39; line 58 to col. 3, line 9).

Although Hickson does not explicitly disclose the deletion being performed by a "scavenger thread," he discloses a process that checks whether a message is expired and deletes any expired message (figure 3). In this case, this process is interpreted as a "scavenger thread" because it performs substantially the same function to reach substantially same result.

At the time the invention was made, one of ordinary skill in art would have been motivated to combine the teaching of Hickson with the teaching of Chandra by deleting expired messages in order to free up storage for the receipt of more messages (col. 2, lines 34-35), thus increasing the system's efficiency.

Claim 28 is similar to claim 26, therefore is rejected under the same rationale.

Claims 23-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chandra in view Hickson in further view of USPN 6,282,565 issued to Shaw.

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(New) Regarding claims 24 and 27, Chandra fails to teach the method of claim 23 further comprising: receiving from the receiver an acknowledgement of receipt of the message; and deleting the message along with the identifier and the expiration time associated with the message. Hickson teaches deleting the message along with the identifier and the expiration time associated with the message (col. 2, lines 31-39; line 58 to col. 3, line 9).

Shaw teaches sending an acknowledgement message from the receiver to the sender that corresponds to the message (col. 3, lines 47-52). At the time the invention was made, one of ordinary skill in the art would have been motivated to send an acknowledgment message from the receiver to the sender that corresponds to the message in order to let the sender know that it has received the message, therefore preventing the sender to send the same message again.

Response to Arguments

Applicant's arguments with respect to claims 23-28 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alina N Boutah whose telephone number is 571-272-3908. The examiner can normally be reached on Monday-Thursday (9:00 am - 7:00 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A Wiley can be reached on 571-272-3923. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ANB

SOHN FOLLANSBEE RVISORY PATENT EXAMINER